

Eric Wenocur

17413 Monitor Drive Olney, MD 20832
301-438-8270 eric@lab-tech-systems.com

Curriculum Vitae

Professional Activities

Owner/Principal, Lab Tech Systems

Consulting engineer for broadcast, television production and professional audio, plus commercial and residential A/V. Primary focus is video and audio system design, installation and troubleshooting. LTS has been in existence since 1980, and became my sole occupation in 1993.

Please see lab-tech-systems.com for information about projects and activities.

Staff Engineer / Chief Engineer

KLM Video, Inc. Bethesda, MD 1984 to 1993

Engineer for video and film post-production facility. Responsibilities included system design and troubleshooting; video and audio equipment maintenance (hardware and software, to component level); equipment installation, modification and design. Oversaw Engineering department, quality control and parts inventory. Participated in staff training by preparing instructional materials and conducting classes on equipment theory and operation.

Studio Tech and Recording Engineer

Roar Productions, Inc. Columbia, MD 1980 to 1995

Staff technician, studio designer and recording engineer for commercial multitrack audio facility. Designed and supervised construction of an 8/16-track studio in 1982 and a 24-track studio, featuring a LEDE control room, in 1990. Responsibilities included all facets of studio design and maintenance, as well as session engineering. Taught courses in "Critical Listening," "Mixing Console Operation" and "Studio Maintenance" for Roar's School of Recording Technology.

Musician/Professional Musician/Producer On and off over the years

Performed on piano and keyboards with jazz and commercial groups. Led a jazz trio for 3 years in the early 1980s (recipients of 1980 *Downbeat* magazine Student Recording Award). Wrote, arranged, produced and performed on recording projects including jingles and commercial music sessions.

AES Convention, 2013: Presentation on Facility Technical Management

Winter Olympic Games, Nagano, 1998: Support engineer, CBS facility at Int'l Broadcast Center

University of Guam, 1997: Workshop on Video Maintenance Basics for U.S. Dept. of Interior

NAB Convention, 1990, 1991: *Video Systems* magazine "Pick-Hits of NAB" committee

AES Convention, 1989: Workshop: "Video Sweetening Basics for Audio Engineers"

Other presentations and workshops: TV Tech Basics, Technical Management and related topics for AMIA, BICSI, TIVA, GVExpo

Articles

As of 2022 I am writing regularly for *Sound & Video Contractor* magazine (tutorials, reviews and other technical content) <https://www.svconline.com/author/eric-wenocur>

Other published work:

“Not Power, Not Ethernet, What is It?,” *ICT Today* (journal of BICSI), 2015

“Analog Audio Interfacing,” *AV Technology*, November 2013

“Why Aren't My Picture and Sound in Sync? The Coming Crisis in Technical Knowledge,” *The Spectator* (Univ. of Southern California Journal of Film and Television Criticism), January 2004

“Systems Design Showcase: Non-linear HD Editing,” *Broadcast Engineering*, January 2003

“Power & Grounding: Unconventional Approaches,” *Broadcast Engineering*, September 1996

“Ins and Outs of Patchbays,” *MIX*, August 1994

“SC/H Phase and Color-Framing,” *Broadcast Engineering*, November 1992

“1992 National Audio Test,” *Recording Engineer/Producer*, July 1992 (editor/writer)

“Modern Deals,” *Recording Engineer/Producer*, May 1992 (article on record industry)

“Studio Handbook (Timecode/Video Tips),” *Recording Engineer/Producer*, October 1991

“Interfacing Audio to VTRs,” *Recording Engineer/Producer*, October 1990

“Video Sweetening Basics for Audio Engineers,” *MIX*, April 1989

Memberships & Affiliations

Audio Engineering Society, AVIXA (formerly Infocomm), Digital Cinema Society, Society of Motion Picture and Television Engineers (2016 Citation for Outstanding Service to the Society)

Professional Statement

My work experience and other interests have given me a wide knowledge of subjects relating to media technology. Examples include television editing and graphics, colorimetry, music recording, film sound, acoustics, sound reinforcement, facility design and construction, architecture and construction trades, tools and machining, hardware and software design, and technical management.

This broad range of technical knowledge increases my ability to contribute to creative undertakings, while my own artistic experience and sensibilities bring extra perspective to my clients' projects. I have found that understanding how things actually work sometimes makes it necessary to question the norm, rather than following “conventional wisdom” to develop design strategies. I try to keep up with changes, but don't rush to use the newest thing just because someone is selling it.

I'm a well-organized and detailed thinker, bringing passion to my work through attention to detail and concern for integrity in conception and action. I strive to produce quality work without losing sight of the desired results, balancing a commitment to personal standards with the recognition that situations have practical limits.

Related Experience and Interests

Vectorworks CAD; Microsoft Office apps; applications for web design, network troubleshooting, video editing, audio recording and processing. Extensive knowledge of peripherals and hardware interfacing, IT and networking concepts and technologies.

Personal interests in music, visual arts, performing arts, architecture and interior design, industrial design and infrastructure, literature, humor, philosophy, wildlife and animal welfare.

Technology Experience Summary (updated 6/2024)

Following is a partial list of hardware and software that I have designed into systems, configured, or been called on to troubleshoot. Going back 35+ years there's no way to account for all of it...

Production switchers: GVG, Ross Carbonite & Synergy, Datavideo, Blackmagic Design, Roland, Tricaster, Broadcast Pix, Telestream Wirecast, VMix

Video servers/processors: 360 Systems, Telvue, Imagine (and Digital Rapids), Video Clarity, Archimedia, Telestream

NAS & RAID servers: Synology, AQ Broadcast, Grass Valley, Editshare, Studio Network Solutions, Promise, Facilis, Avid Isis/Interplay

Video routing switchers: Utah Scientific, AJA, Blackmagic, Harris/Leitch, Matrix Switch Corp., Intelix, GVG

Multiviewers: Apantac, Miranda Kaleido, Decimator Design

Production cameras: Panasonic/Sony/Hitachi ENG & box style, Blackmagic Design, Sony A7

Robotic cameras and heads: Panasonic, Sony, Datavideo, BirdDog, Telemetrics heads/controllers, Panasonic heads/controllers

Prompters & clocks: Autoscript, Autocue, Cuescript, ESE, Evertz, Masterclock

Broadcast monitors & displays: Sony, Panasonic, TV Logic, Flanders, Canon, Wohler, JVC, etc.

Projectors & screens: NEC, BenQ, Sony, Panasonic, Epson; Draper, Da-Lite

Lighting: ETC, Chamsys, American DJ, Litepanels, Chauvet, Ikan, Matthews, Lutron, Lightolier

Image processing/recording/playback: TV One Coriomaster, Teranex, AJA, Barco, Analog Way, Blackmagic, Atomos, Brightsign

Video infrastructure: Frames, cards and modules from Cobalt, Apantac, AJA, Blackmagic, Ensemble Designs, Grass Valley, Ross, Evertz, Atlona, Altinex, Intelix, Aurora, TV One, etc.

Captioning: Evertz, EEG, Link, Enco EnCaption

Fiber transport: Riedel Mediornet, Multidyne, AJA, Ensemble Designs, Evertz, Artel

Media transport & streaming: LTN Global, Verizon AVOC, Videolink Readycam; MediaKind (Ericsson), DVEO, VBrick, Datavideo, AJA, Epiphan, Matrox, Magewell

Audio mixers & control surfaces: Soundcraft SI & UI, Allen&Heath Qu, Behringer X32, SSL C10, QSC Touchmix, numerous analog mixers; Pro Tools D-Command, C24, S6

Audio DSP & interfacing: Sennheiser SPN, Bose, MediaMatrix, Biamp Tesira & Nexia, Yamaha YVC; Focusrite, MOTU

Audio mics & monitoring: AKG, Neumann, Shure, Sennheiser, Electrovoice, Countryman; Genelec, JBL, KRK, Blue Sky, Dangerous Audio, SPL, Mackie, Presonus, Coleman, Mackie

Intercom: RTS, Clearcom, Riedel, JK Audio, Eartec

ISDN/Telco: Telos Zephyr, JK Audio, ClearOne, Comrex Opal, Tieline BridgeIT

Video & Audio Editing: Avid, Adobe Suite, Final Cut, Pro Tools, Audacity

Teleconference: Polycom, Tandberg, Cisco, Newtek Talkshow, Vaddio, AJA, Zoom/Room

Network switches & routers: Cisco, Netgear, Meraki, DLink, etc.

KVM: Aten, Adder, Raritan, Rose

AV/IT Protocols: Ethernet (OSI stack), DMX, NDI, Dante, SRT, UAC/UTC, RTS RVON, ST2110, etc.